

**Figure 1**

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices  $\tilde{A}$  and  $\tilde{B}$ , respectively. The x-axis for both panels is labeled "Number of non-zero elements" and ranges from 0 to 100,000. The y-axis is labeled "Frequency" and ranges from 0 to 100.

Panel A shows the distribution for  $\tilde{A}$ . The histogram has a peak frequency of approximately 80 at around 20,000 non-zero elements. There are several smaller peaks at higher values, up to 60,000.

Panel B shows the distribution for  $\tilde{B}$ . The histogram has a much narrower distribution, peaking sharply at approximately 90 frequency around 10,000 non-zero elements. There are very few non-zero elements beyond 20,000.

Martin J Angebrannt

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